

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Food Technology) (Sem.-7)
WASTE MANAGEMENT IN FOOD INDUSTRY

Subject Code : BTFT-704

M.Code : 90967

Date of Examination : 11-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a. Differentiate between BOD and COD? What is standard of COD and BOD in STP?
- b. What is activated sludge process?
- c. What do you understand from surface- aerated basins (Lagoons).
- d. Differentiate between edible and inedible by products from meat industry with examples.
- e. What is the purpose of aerating the water?
- f. What is the main focus of EPA?
- g. What are tertiary treatments of water?
- h. What is activated carbon? What kind of impurities removed by using activated carbon?
- i. How are phosphorous and nitrogen removed from wastewater?
- j. What is oxidation pond and oxidation ditch?

SECTION-B

2. What is difference in coagulation and flocculation? What is the purpose of these treatments to waste water?
3. Differentiate among the various methods used for disinfection of water.
4. What is the magnitude of waste generation in the Indian food industry? How this waste is managed by the industries?
5. Draw the schematic diagram of a trickling filter and write down its operation.
6. What are the effluent standards? What are the parameters of effluent discharge?

SECTION-C

7. How waste water is treated using an oxidation ditch? How does oxidation ditch system differs from the packaged plant system?
8. What are the characteristics of food industry effluents? What are the effects of these effluents on the environment?
9. Write about the rotating biological contactors. What is the use of these contactors in waste water treatment?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.